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(71) Applicant (for all designated States except US): **THE PENN STATE RESEARCH FOUNDATION** [US/US]; 304 Old Main, University Park, PA 16802 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WERNER, Douglas, H.** [US/US]; 2365 Oak Leaf Drive, State College, PA 16803 (US). **MAYER, Theresa, S.** [US/US]; 117 Colgate Court, Port Matilda, PA 16801 (US). **BOSSARD, Jeremy, A.** [US/US]; 5K Graduate Circle, State College, PA 16801

(US). **DRUPP, Robert, P.** [US/US]; 11654 Little Patuxent Parkway, Apt. 204, Columbia, MD 21044 (US). **LIANG, Xiaotao** [CN/US]; 3407 Plaza Drive, State College, PA 16801 (US). **LI, Ling** [CN/US]; 772 W. Whitehall Road, State College, PA 16801 (US).

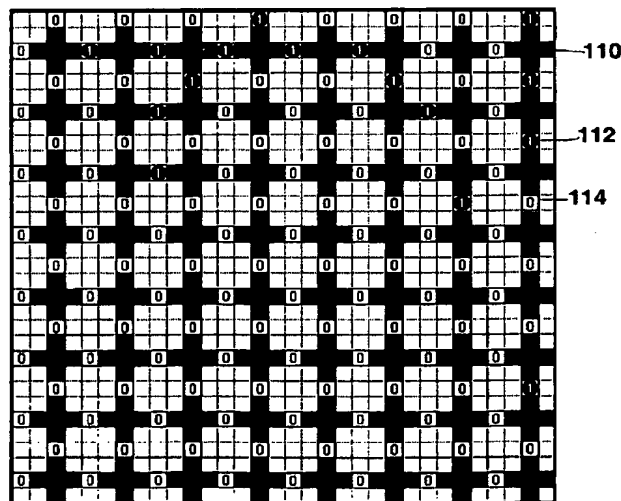
(74) Agents: **BANCROFT, Martin, S.** et al.; Gifford, Krass, Groh, Sprinkle, Anderson & Citkows, ki, PC, P.O. Box 7021, Troy, MI 48007-7021 (US).

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(54) Title: RECONFIGURABLE FREQUENCY SELECTIVE SURFACES FOR REMOTE SENSING OF CHEMICAL AND BIOLOGICAL AGENTS



(57) Abstract: An improved frequency selective surface (FSS) comprises a periodically replicated unit cell, the unit cell including a material having a first electrical conductivity in the presence of an external condition, and a second electrical conductivity in the absence of an external condition, or in the presence of a modified external condition. For example, the material may be a chemoresistive material, having an electrical conductivity that changes in the presence of a chemical or biological analyte, i.e. having a first value of electrical conductivity in the presence of the analyte, and a second value of electrical conductivity in the absence of the analyte.

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